

**AMENDMENTS TO THE SPECIFICATION**

**Please replace the paragraph bridging Pages 16 and 17 as follows:**

C1 The excitation light source 1917 of the light source section 100, on the other hand, employs an InGaN semiconductor laser of multi-quantum cell structure (active layer InGaN/InGaN). The excitation light source 1917 is pulse-driven by an LD power source 2018 that is controlled by the control section 16, and emits pulsed excitation light Le at cycles of 1/60 sec. The excitation light Le is focused by an excitation-light condenser lens 21 and is incident on an excitation-light guide 25-2. The excitation-light guide 25-2 is formed with a silica glass fiber and connected to the light source section 100.

**Please replace the first full paragraph on Page 18 as follows:**

For observation of a normal image, the image taking-in section 300 is provided with a normal observation A/D converter 8 for converting the electrical image signal transmitted by the CCD cable 27, to a digital image signal and a normal image memory 9 for storing the digital image signal. For observation of a fluorescence image, the image taking-in section 300 is further provided with a fluorescence observation high-sensitivity CCD imager 10 (cooling-type back irradiation CCD imager); an optical system constructed so that the fluorescence image guided to the end face Ko of the fluorescence image fiber 26 is formed on the light receiving surface of the fluorescence observation high-sensitivity CCD imager 10 by a fluorescence condenser lens 23 through an excitation-light cut filter 24 for cutting off a wavelength less than or equal to a wavelength of near 4100 nm; a fluorescence observation A/D converter 11 for converting the electrical image signal, received and converted by the fluorescence observation high-sensitivity

CCD imager 10, to a digital image signal; and a fluorescence image memory 12, which consists  
A2 of a fluorescence image h1 memory 12-1, a fluorescence image h2 memory 12-2, and a  
fluorescence image h3 memory 12-3, for storing the digital image signal.

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**Please replace the paragraph bridging Pages 28 and 29 as follows:**

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In the second embodiment, an endoscope 200 has no CCD imager and therefore a normal  
image and a fluorescence image are both propagated to an image taking-in section 300 by an  
image fiber ~~25~~26. The image taking-in section 300 is provided with a disc filter 29 which is  
A2 rotated by a motor 30, a normal observation CCD imager 7 for forming the image of a tissue 1  
illuminated with white light Wh, and a fluorescence observation high-sensitivity CCD imager 8  
for forming the image of fluorescence emitted from the tissue 1 by irradiation of excitation light  
Le.

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